

L 22578-66

ACC NR: AP6012975

SOURCE CODE: UR/0094/65/000/009/0043/0043

AUTHORS: Bol'sham, Ya. M.; Vinogradov, A. A.; Volobrinskiy, S. D.; Geyler, L. B.;
Grodinskiy, P. G.; Dolginov, A. I.; Zil'berman, R. I.; Kazak, N. A.; Kletenik, B. I.;
~~Kayashnikov, S. I.~~; Livshits, D. S.; Mel'nikov, N. A.; Minin, G. P.; Mukoseyev,
Yu. L.; Nayfel'd, M. R.; Petrov, I. I.; Ravin, V. I.; Samover, M. L.; Serbinovskiy,
G. V.; Syromyatnikov, I. A.

ORG: none

TITLE: Lev Veniaminovich Litvak (on the occasion of his 60th birthday)

SOURCE: Proyshlennaya energetika, no. 9, 1965, 43

TOPIC TAGS: electric engineering personnel, electric power engineering

ABSTRACT: The noted specialist of industrial power production, Candidate of Technical Sciences, Docent of the Correspondence Power Institute Lev Veniaminovich LITVAK began his engineering activity at the Moscow Association of State Electric Stations in 1929. Later he became one of the coauthors of all the "Directives for the increase of the power factor" issued in 1954, 1955, and 1961. He published 70 scientific papers. For his successful activities in defense industries during World War II he was decorated by "Znak Pocheta." After the war he concentrated on scientific-pedagogical work and in recent years worked actively in

Card 1/2

L 22578-66

ACC NR: AP6012975

the Teaching-Methodological Commission of the Ministry of Higher and Intermediate Special Education USSR, for the specialty "Electrical supply to industrial enterprises and cities." Orig. art. has: 1 figure. [JPRS]

SUB CODE: 05, 10; 09 / SUBM DATE: none

Cord 2/2 BK

1 29166-66

ACC NR: AP6018070

SOURCE CODE: UR/0104/65/000/011/0094/0094

AUTHOR: Hoporozhniy, P. S.; Savirykh, A. P.; Sapozhnikov, F. V.; Serdinikov, N. P.;
 Achkasov, D. I.; Durgendorf, V. V.; Homov, N. P.; Syrosyatnikov, I. A.; Kovazanakiy,
 B. A.; Rokotyan, S. S.; Steklov, V. Yu.; Fedoseyev, A. M.; Grudinskiy, P. S.;
 Khomyakov, M. V.; Venkov, V. A.; Chernobrovov, N. V.; Mel'nikov, N. A.;
 Bershadskiy, L. S.

21
B

ORG: none

TITLE: Honoring the 60th birthday of Aleksandr Dmitriyevich Romanov

SOURCE: Elektricheskiye stantsii, no. 11, 1965, 94

TOPIC TAGS: electric power plant, industrial personnel

ABSTRACT: In July 1965 A. D. Romanov celebrated his 60th birthday and the 35th anniversary of his active life as a major designer, operator, and builder of electric power stations. On his graduation in 1927 from the Moscow College of Engineering, Aleksandr Dmitriyevich joined the Mosenergo Moscow Power System where he steadily rose through the ranks until he became Deputy Chief Engineer, while at the same time participating in the design and practical introduction of 500-kV electric transmission lines running from Moscow to Volzhskaya Hydroelectric Power Station and from Kuybyshev to the Ural. Since 1959 A. D. Romanov has been Chief Engineer at the Glavvostoylektronostroy Main Administration for Power Grid Construction in Eastern USSR of the

ACC NR: AJG010890

State Production Committee for Energetics and Electrification USSR. Along with his native work, since 1930 A. D. Romanov has been teaching courses in Power Networks and Systems as well as in Power Stations and Substations at the Moscow Correspondence Institute of Energetics and, later, at the All-Union Correspondence Institute of Energetics, and, in this capacity, has trained new cadres of power engineers. In 1957 the title of Assistant Professor was conferred on him and in 1963, the title of Candidate of Technical Sciences. He has published more than 40 scientific and technical articles on power engineering and construction and he is a member of the editorial boards of the periodic anthologies Energeticheskoye Stroitel'stvo (Power Construction) and Energeticheskoye Stroitel'stvo za Rubezhom (Power Construction Abroad). He has been a Party member since 1932 and is the bearer of the Order of Labor Red Banner as well as of various medals. Best wishes for further creative work are extended to him. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 10 / SUBM DATE: none

Card 2/2 CC

ALAMANOV, B.; KNYAZEVSKIY, B.F., red.; BEKSHENOV, A., tekhn. red.

[Economics of sheep raising in the Issyk-Kul' region] Ekonomika ovtsevodstva P. Issyk-Kul'ia. Frunze, Kirgizskoe gos. izd-vo, 1960. 195 p. (MIRA 15:3)
(Issyk-Kul' region—Sheep)

L 27947-66

(P)

ACC NR: AP6017709

SOURCE CODE: UR/0105/66/000/001/0086/0086

AUTHOR: Avilov-Karnaukhov, B. M.; Bol'sham, Ya. M.; Venikov, V. A.; Volobrinakiy, S. D.; Yermalov, A. A.; Konstantinov, B. A.; Kurasevskiy, B. Ya.; Rinin, G. P.; Miller, G. R.; Mukoseyev, Yu. L.; Petrov, I. I.; Serbinovskiy, G. V.; Syromyatnikov, I. A.; Fedorov, A. A.; Kholmskiy, G. V.; Shagalov, A. S.; Chilikin, M. G.

ORG: none

37
b

TITLE: Prof. Georgiy Mikhaylovich Kayalov (on his 60th birthday)

SOURCE: Elektrichestvo, no. 1, 1966, 86

TOPIC TAGS: academic personnel, electric engineering personnel, electric equipment

ABSTRACT: In 1929, G. M. Kayalov completed the electrotechnical department of the Mechanical Faculty of the Novocherkassk Polytechnical Institute. Until 1947, he worked in the planning department of the Rostov Division of the All-Union Electrotechnical Union. In this time, he rose to the position of Chief Engineer. He directed the planning of a large number of important pieces of electrical equipment for various projects. He was active in the postwar restoration of many important industrial enterprises. He is the author of almost 70 published works, and has made a great contribution to modern, scientifically based methods of design and analysis of electrical loads for industrial equipment. He is on a number of commissions and in many scientific and technical societies. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 1/1 BLA

UDC: 621.34

2

KNIAZEVSKIY, L.B.

Blasting

Experience with lengthened blast holes. Cor. zhur. no. 5, May 1952

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED

I 21692-66 MT(m)/MP(w)/MA(d)/T/MP(s) JPR(s) ID

ACC NR: AP6015829

SOURCE CODE: UR/0286/65/000/019/0072/0072

INVENTOR: Kribosheyn, A. Ye.; Koteshev, N. P.; Parshic, A. I.; Rodnitskiy, L. S.; 41
Knyazhanskiy, M. U.; Rudnev, O. N.; Gandsha, G. A. B

ORG: none

TITLE: Alloyed cast iron. Class O 22c; 40b, 37 sup-co B 21b; 7a, 19, No. 175236 18SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 72

TOPIC TAGS: cast iron, hardness, wear resistance, chemical composition, iron alloy

ABSTRACT: An alloy cast iron is proposed with high wear resistance and hardness which has the following chemical composition (in %): 3.8 C (max), 0.3-0.7 Si, 2.0-3.5 Mn, 0.05-0.3 Cr, 1.2-2.2 Ni, 0.3 Ti (max) and 0.4 P (max). [JPR] 18

SUB CODE: 11, 20, 07 / SUBM DATE: none

Card 1/1 FW

UDC: 669.15-196:771.2-233.12 2

KNIAZEVSKIY, M.V. (Ryazan', ul.Dzerzhinskogo,d.48,kv.1)

**Skin grafting in thermal burns. Klin.khir. no.5:16-20 My '62,
(MIRA 16:4)**

**1. Kafedra fakul'tetskoy khirurgii (sav. - prof. I.Ye.
Matsuyev) Ryazanakogo meditsinskogo instituta.
(BURNS AND SCALDS) (SKIN GRAFTING)**

KNYAZEVSKIY, M.V.

Calcified echinococcosis of the spleen. Khirurgia 38 no.10:125-
127 0 '62. (MIRA 15:12)

1. Is fakul'tetskoy khirurgicheskoy kliniki (sav. - prof. I.Ye.
Matsuyev) Ryazanskogo meditsinskogo instituta.
(SPLEEN--HYDATIDS) (SPLEEN--CALCIFICATION)

KNYAZEVSKIY, M.V.

Case of skin grafting against a background of allergic
reaction in a patient with a finger burn. Khirurgia 39
no.10:133-135 O '63. (MIRA 17:9)

1. Is kafedry fakul'tetskoy khirurgii (sav.- prof. I.Ye.
Matsuyev) Ryasanskogo meditsinskogo instituta imeni Pavlova.

ARKHANGEL'SKIY, K.P.; SHILVIN, D.M.; SHOR, Sh.I.; ZHUKOV, A.V., kandidat
tekhnicheskikh nauk, redaktor; KNYAZEVSKIY, P. redaktor;
IOAKIMIS, A., tekhnicheskiy redaktor.

[Producing corrugated roofing sheets on the SKVL-2 machine]
Proizvodstvo kroval'nykh volnistykh listev na stanke SKVL-2.
Pod red. A.V. Zhukova. Kiev, Gos. izd-vo lit-ry po stroit. i
arhitekture USSR, 1955. 80 p. (MLRA 9:5)
(Roofing)

MYAKSHIN, Vladimir Nikolayevich; KNYAZEVSKIY, P., redaktor; IOAKIMIS, A.,
tekhnicheskiy redaktor

[Soundproofing of buildings] Zvukoizolatsiia stroitel'nykh kon-
strukttsii. Kiev, Gos. izd-vo lit-ry po stroit. i arkhitekture
USSR, 1956. 109 p. (MIRA 9:8)
(Soundproofing)

ROKHLIN, Il'ya Aleksandrovich; kandidat tekhnicheskikh nauk; YARIN, V.N.,
professor, saslushennyy deyatel' nauki i tekhniki, redaktor;
DIYAKHVIKII, P.A., redaktor; SELENKOVA, Ye., tekhnicheskiy redaktor

[Calculations for ceramic construction elements] Raschet keramicheskikh konstruktsii. Pod red. V.N.Yarina, Kiev, Gos. izd-vo lit-ry po stroit. i arkhitekture USSR, 1956. 288 p. (MIRA 9:12)
(Ceramic materials)

KNYAZEVSKIY, P.

DARSKIY, Mikhail Mironovich; KNYAZEVSKIY, P., red.; NEKOLINED, I., tekhn.red.

[Large-panel construction in Czechoslovakia; work organisation]
Krupnopanel'noe stroitel'stvo v Chekhoslovatskoi Respublike;
organisatsiia rabot. Kiev, Gos.isd-vo lit-ry po stroit.i arkhit.
USSR, 1957. 50 p. (MIRA 10:12)
(Czechoslovakia--Precast concrete construction)

KNYAZEVISKIY, P.

TRUPINSKIY, Aleksey Bonifat'yevich; KNYAZEVISKIY, P., redaktor; IOAKIMIS, A.,
tekhnicheskiy redaktor

[Means and methods of standardizing the construction of apartment
houses] Puti i metody tipizatsii konstruksii zhilykh domov. Kiev,
Oos.isd-vo lit-ry po stroit. i arkhit. USSR, 1957. 89 p. (MIRA 10:9)
(Apartment houses)

KNYAZEVSKIY, V. (Sostov-na-Domu)

Using the index of net production in calculating labor productivity,
Vop. ekon. no.8:136-139 Ag '62. (MIRA 15:8)
(Productivity accounting)

LYASHENKO, I.V.; KNYAZHNSKIY, V.F.

[Organization of the feed supply and wintering of cattle on collective farms] Organizatsiia kormovoi bazy i zimovki skota v kolkhose "Krasnaia Zaria." Frunse, Kirgizskoe gos. izd-vo, 1953. 25 p. (Stock and stockbreeding) (MIRA 10:1)

PODOBEDOV, V.V., insh.; DUBROV, S.Ya., insh.; SOLOV'YEV, N.Ye., insh.;
YEDAKOV, V.M., insh.; KNYAZHANSKAYA, Ye.I., insh.

Use of the twindrifft mining system. Ugol'.prom. no.1:29-34
Ja-F '62. (MIRA 15:8)

1. Normativno-issledovatel'skaya stantsiya Chistyakovakogo tresta
predpriyatij ugol'noy promyshlennosti Donbassa Ministerstva
ugol'noy promyshlennosti SSSR.
(Coal mines and mining)

KRIVOSHEYEV, A.Ye.; RUDNITSKIY, L.S.; BELAY, O.Ye.; NIKOLAYEV, N.A.;
Prinimali uchastnye: PARSHIN, A.I.; KNYAZHANSKIY, M.U.; BELYY, N.I.;
CHERKUN, N.A.; NECHAYEVA, Z.A.; LEV, I.Ye.; BUNINA, Yu.K.

Iron mill rolls of cerium cast iron. Stal' 23 no.3:278-282 Nr
'63. (MIRA 16:5)

1. Dnepropetrovskiy metallurgicheskiy institut (for Krivosheyev,
Rudnitskiy, Belay, Nikolayev, Lev, Bunina). 2. Dnepropetrovskiy
chugunoval'nyy zavod (for Parshin, Knyazhanskiy, Belyy,
Cherkun, Nechayeva).

(Rolls (Iron mills))

KNYAZHANSKIY, M.U., insh.

Casting large-section shaped rolls of increased hardness.
Stal' 24 no.5:438-440 My '64. (MIRA 17:12)

1. Dnepropetrovskiy zhuguno-val'tsedelatel'nyy zavod.

KNYAZHANSKIY, O. M., jt. au.

VAINDRAKH, Grigori Moiseevich.

D. I. Ivanovskii and the discovery of viruses. Moskva, TSentr, in-tr sanitarnogo prosveshchenia, 1948. 5lp. (Problemy i ljudi) (54-2137B)

QR31.19V3

1. Ivanovskii, Dmitrii Isifovich, 1864-1920.
2. Viruses.

KNYAZHANSKIY, O.M., *savedyushchiy*; **GANCHUK, N.S.;** **STEPANOV, O.V.,** *glavnyy vrach.*

Comparative study of elective nutrient media for the cultivation of dysentery and typhoid bacilli. (Authors' abstract). *Zhur. mikrobiol. epid. i imm. no. 3:65-66* Mar '53. (MLBA 6:6)

1. Bakteriologicheskaya laboratoriya Rostovskoy-na Donu tsentral'noi gorodskoy bol'nitsy (for Knyazhanskiy).
2. Rostovskaya-na-Donu tsentral'naya gorodskaya bol'nitsa (for Stepanov).
(Dysentery) (Typhoid fever) (Bacteriology--Cultures and culture media)

KNYAZHANSKIY , O. M.

Jul 53

USSR/Medicine - Typhoid

"Vi-Phage Types of Typhoid and Paratyphoid B Strains and Their Significance in Epidemiological Practice," O. M. Knyazhanskiy, O. M. Kplediy, Bacteriol Lab, Rostov-on-Don City Clinical Hospital

Zhur Mikro Epid i Immun, No 7, pp 78-79

The phage types of typhoid strains isolated in Rostov-on-Don during 1951-52 were F₂ (83.4%), E₂ (11.6%), and D₂ (1.9%). The only phage type found among paratyphoid B strains was 3b. The phage typing of strains appears promising for application in epidemiological work. The vi-antigen is preserved in strains of typhoid and paratyphoid bacteria for longer than 2 yrs if optimum conditions for the storage of cultures are observed.

267T54

KNYAZHANSKIY, O. M.

Jul 53

USSR/Medicine - Typhoid

"Data on the Detection by the Phage Elimination Method of Typhoid-Paratyphoid Carriers Among Recovered Persons," O. M. Knyashanskiy, O. M. Kolodiy, Bacteriol Lab, Rostov-on-Don Central City Hospital

Zhur Mikro Epid, i Immun, No 7, p 81

Among patients admitted with the diagnosis "feverish condition," 6.3% had typhoid and paratyphoid. The fractions of those who eliminated bacteria (b) and phages (p) were as follows: 1st 10 days, 23% b, 23% p; 2d 10 days, 30% b, 23% p; 3d 10 days, 20% b, 34% p; 4th 10 days, 15% b, 25% p; 6th 10 days, 7% b, 16% p. Authors treat elimination of phages as indication that infection is present in (clinically) recovered persons.

267T58

1. KNYAZHETSKAYA, Ya. A.: SHAFRANOVSKIY, K. I.
2. USSR (600)
4. Aral Sea - Charts, Maps, Etc.
7. Charts of the Caspian and Aral Seas, compiled as a result of the expedition of Aleksandr Bekovich-Cherkasskii in 1715. Izv Vses. geog. obshch., 84, no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

SHAFRANOVSKIY, K.I.; KHYAKHITSKAYA, Ye.A.; SUDAKOV, A.I.

Map of the Caucasus and the Caspian Sea of 1723. Izv.Vses.geog.ob-va 85
no.4:468-470 J1-Ag '53. (MLZA 618)

(Caucasus--Maps, Early)

SHAFRANOVSKIY, K. I.; KNYAZHITSKAYA, Ye. A.

Maps of the Kara-Bogas-Gol in the first half of the 18th century.
Izv. AN SSSR. Ser. geog. no. 4:60-70 J1-A '55. (MIRA 8:10)
(Kara-Bogas-Gol (Gulf)--Maps))

VARLAMOV, Ye.; KNYAZHINSKIY, M.

Rated method of accounting and planning. Avt. dcr. 28 no. 3:20-22
Mr '65. (MIRA 18:5)

1. Glavnyy bukhgalter Glavnogo upravleniya po stroitel'stvu avtomobil'nykh dorog soyuznogo znacheniya (for Varlamov).
2. Glavnyy bukhgalter "Sevkavdorstroya" (for Knyazhinskiy).

KNYAZHENSKIY, S.M.

Oxyhemometric investigations during resection of the lung in
tuberculous patients. Probl.tub. 37 no.8:72-74 '59.

(MIRA 13:6)

1. Iz laboratorii klinicheskoy fiziologii (rukovoditel' -
doktor med.nauk V.V. Chayka) i khirurgicheskikh otdeleniy
(rukovoditel' - prof. I.S. Kolesnikov) Leningradskogo instituta
tuberkuleza (dir. - prof. A.D. Semenov).

(OXIMETRY)

(PNEUMONECTOMY)

KNYAZHEV, V.N.

Certain considerations on the problem of two signal systems. Zh. vysshei
nerv. deiat. 3 no.2:312-315 Mar-Apr 1953. (CML 24:4)

1. Department of Nervous Diseases of Ryazan' Medical Institute imeni
Academician I. P. Pavlov.

(1) AND THE OTHERS

KNYAZHEVA G. V. PROCEEDINGS AND DOCUMENTS SERIES

9

M

Quantitative Determination of Gold by Potentiometric Titration. D. I. Hyalshikov and G. V. Knyazheva (Comm. Acad. Sci. U.S.S.R., 1959, [N.A.] 26, (7), 607-608) [in English.] Procedures are described for the quantitative potentiometric determination of Au, in the presence of other noble metals, using either hydroquinone or Mohr's salt as reducing agent. The Au⁺⁺⁺ is brought into the form of the stable compound Na[AuCl₄] before titration. The method is stated to be rapid and accurate, and the only metal of the Pt group which interferes is Ir.—N. B. V.

in. KORNAKY.

INST. Gen. + Inorganic Chem; Acad. Sci USSR

ASB. 11.4 METALLURGICAL LITERATURE CLASSIFICATION

C.A. KNYAZNEVA, G. V.

9

Determination of gold and platinum in telluric gold.
 D. I. Ryukhovich and G. B. Kopylova. *Izv. Akad. Nauk S.S.S.R. Khim. i Geol. Naft. S.S.S.R. No. 11, 121-4 (1966)*—Dissolve the sample in aqua regia and add twice the theoretical quantity of NaCl to the soln. The Au forms $\text{Na}[\text{AuCl}_4]$ in which form the trivalent state is stable and suitable for titration. The titration is carried out potentiometrically with hydroquinone or $(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2$ soln. The end point is marked by a jump in potential. To det. platinum in the sample, dissolve by of metal in aqua regia, and boil off N oxide, NH_3 , and excess HCl. Filter to remove AgCl and an insol. residue and to the soln. add twice the theoretical quantity of NaCl. The soln. now contains Au, Pt, Ir, and Pd. Transfer to a 250-ml. flask and dil. to vol. To a 25-ml. aliquot add 20 ml. of a cold, 10% caustic soln., and boil 15-20 min. Au is reduced to metal, filter and weigh. Evap. the combined filtrate and wash water to

half its vol. and add 20-30 ml. of 20% H_2SO_4 . Heat to boiling and add 0.2 N KMnO_4 slowly until a stable color appears. This destroys the caustic and oxidizes Pt, Ir, and Pd to their highest valency. In this soln. Pt is detd. potentiometrically as outlined in C.A. 40, 102816. If the soln. is a required brown, add to the titrated soln. a little Mohr's salt soln. If the color fades it indicates the absence of Pd and the presence of Ir. If the color remains, it indicates the presence of Pd. In either case, titrate the reduced soln. with 0.1 N KMnO_4 . The 1st jump in potential is due to $\text{Fe}^{2+} \rightarrow \text{Fe}^{3+}$ and the 2nd to $\text{Ir}^{2+} \rightarrow \text{Ir}^{3+}$ if present. In the latter case Pt and Ir are rated, accordingly. To the titrated soln. add 20-30 ml. of a cold, aq. soln. of di-orthylglyoxime, allow to stand over night, filter, and weigh the dried Pt ppt. 24. 11cmh

/// KNYAZHEVA G.V.

analyser !!

***New Substantive Method for Determining Palladium in Refined Silver and Other Silver Products. G. V. Knyazheva (Inst. State. Planning, USSR, 125-126; C. Zh., 1955, 64, 10284).—(In Russian). The method described is a modification of the method wherein H_2PtCl_6 is not used upon by H_2Cl_2 . The reaction product is extracted with ether and has the characteristic yellow colour. Frequently this colour was masked by an unstable pink colour, which was traced to the presence of Pd. The pink colour could be stabilised by Cu, in which case it remained stable for several days. Thus, to determine Pd, take a 100 ml. of the substance or a series of nitrate soln. and add to it conc. HNO_3 , H_2O , HCl , 1 g conc. H_2SO_4 , 10% H_2Cl_2 20-30, and other 10-15 ml. If Ag is present, $AgCl$ precipitates but does not interfere. If Fe is present, it colors in the ether. Add a little HNO_3 to destroy the Pd colour and determine Fe colorimetrically in the usual way. Prepare a standard soln. to which are added all the above reagents and to which a quantity of Pd found in the analyzed sample. Add slowly a Pd standard soln. with shaking until the colour of the analyzed sample and that of the standard match. The results of Pd determination by this method agree well with grav. results, but whereas the grav. method requires a 100 g. sample, the colorimetric requires only 1 g. For Pd up to 0.005 g. the amount of Cu required is 0.02 mg. or more. Colour comparison can be made in transmitted or reflected daylight, but artificial light causes difficulties. Cr^{3+} , Pb^{2+} , Pb^{4+} , Zn , Al , Pb^{2+} , Cl , and Ag do not interfere. Fe up to a Pd:Fe ratio of 2:1 does not interfere; also that Pd should be determined as outlined. Bi and Te should be separated.**

KNIAZHEVA, Nina Ivanovna; STRELE, L.A., red.

[Functions of several variables; abstract of lectures]
Funktsii mnogikh peremennykh; konspekt lektsii. Lenin-
grad, Lesotekhnicheskaya akad., 1963. 133 p.
(MIRA 17:12)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330012-0

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330012-0"

AUTHORS: Knyasheva, V. M., Kolotyrkin, Ya. M. 20-11248-35/50

TITLE: The Anodic Passivation of Chromium in Acid Solutions (Anodnaya passivatsiya khroma v kislykh rastvorakh).

PERIODICAL: Doklady AN SSSR, 1957, Vol. 114, Nr 6, pp. 1265-1268 (USSR)

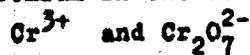
ABSTRACT: In an earlier paper (reference 1) the authors proved that the curve which they obtained on the electrochemical reaction of chromium and nickel in a K_2SO_4 -solution by means of the potentiostatic method of polarization-measurements expresses the dependence of the stable speed on the potential. It permits the determination of the polarization boundaries of the domain of passivation as well as of the corrosion losses in this domain. Thus this curve represents a very important corrosion-characteristic of the metal. In the present paper the electrochemical behavior of pure chromium in its anodic passivation in solutions of sulfuric acid (1,0; 0,10 and 0,01 n) was potentiostatically investigated. The dependence of the steady velocity of solution on the potential. For the 1,0 n-solution of H_2O_4 , this dependence is expressed by the curve ABCDE (figure 1). At potentials which more negative

Card 1/5

The Anodic Passivation of Chromium in Acid Solutions

20-114-6-35/54

than -0,350 V the velocity of solution increases according to the usual Tafelian straight with an inclination of 0,07. At potentials between -0,350 and 0,00 (section BC) the steady velocity of solution decreases according to the same straight, but with an inclination of inverse sign. In the domain further positive than 0,0 and further negative than 1,10 V (section CD) the velocity of solution remains constant. A rapid shift of the potential in the direction to positive values is also in this domain accompanied by an acceleration of the solution. Farther than 1,10 V (section DE) a overpassivation of chromium takes place. Figure 1 shows that on a further increase in potential the velocity of solution increases according to the Tafelian straight with an inclination of 0,04. Table 1 shows that the calculated values of the potential are practically in agreement with the test results. This shows that during the solution of chromium in the domain of overpassivation



ions simultaneously develop at a ratio which rapidly leads to an equilibrium between these ions. The influence of the pH of the solution. The dependence of the velocity of solution of

Card 2/5

The Anodic Passivation of Chromium in Acid Solutions

20-114-6-35/54

active chromium on the potential in solutions of sulfuric acid of various concentrations is expressed by one and the same kinetic curve (figure 1, points a,b,v). The decrease in concentration of the acid is accompanied by a displacement of the upper boundary of the domain of passivation in the direction of the negative potential values. The same reduction of concentration also leads to a displacement of that section of the polarization curve, which lies in the domain of overpassivation, in the direction of negative potential values. From figure 2 is to be seen that the dependence of the potential which corresponds to one and the same speed of solution of chromium on the concentration of H_2SO_4 is expressed by a straight with an inclination of about 0,063. The influence of temperature. Figure 3 shows the results in a 0,1 n-solution of H_2SO_4 at 25, 50 and 75°. The increasing temperature above all markedly accelerates the solution of chromium in the domain of passivation. From this the activation of the process was determined in that domain of polarization in which the velocity of the stable solution is independent on the potential. It amounts to about 5000

~~Card 3/5~~

The Anodic Passivation of Chromium in Acid Solutions

20-111-6-35/54

kilogram-calories. The anodic passivation of chromium is not connected with the formation of a phase film at its surface, but represents a consequence of the kinetic inhibition of the anodic reaction. This inhibition is produced due to the modification of the state of the metal surface in connection with time and potential, this modification being produced by the adsorption-chemical interaction of this surface with the oxygen of water (reference 1). This conclusion is in agreement with the results of the present work (figure 4). Therefore the polarisability of chromium and thus also the dependence of the speed of solution on the potential in the domain of passivation remain the same as in active state.

There are 4 figures, 1 table, and 6 references,
4 of which are Slavic.

Physics Chem Inst. with L. Ya. Karpov

Case 4/5

KHYZHEVA, V.K., Cand Chem Sci—(diss) "Electrochemical behavior of chromium." Mos, 1958. 11 pp with graphs (Min of Chemical Industry USSR. Order of Labor Red Banner Sci Res Phys-Chemical Inst in L.Ye. Karpov), 110 copies (KL,26-58,106)

- 22 -

ANYAZHEVA V. M.

9 5(1) **PHASE I BOOK EXTRACTATION 007/7216**
 - *Состояние электрохимии*. 4th, Moscow, 1956.
 - *Труды... (Proceedings of the Fourth Conference on Electrochemistry; Collection of Articles)*. Moscow, 1st to 3rd 1956, 1959. 848 p. Extracts 219 abstracts. 2,500 copies printed.
 Sponsoring Agency: *Научно-исследовательский институт электрохимии*.
 Editorial Board: A. N. Frolov (resp. Ed.), *Академик*, G. A. Zaslavskiy, S. I. Zhukov (resp. Secretary), S. B. Zhuravskiy, V. M. Anyazheva (resp. Secretary), S. B. Zhuravskiy, Professor, Dr. N. Molodtsov, Senior of Chemical Sciences, V. V. Lomon, P. R. Lomon, Professor, I. I. Solov'yev, V. V. Lomon, Professor, and G. N. Prigodnykh. Ed. of Publishing House M. S. Vysotskiy, Moskva, M. S. Vysotskiy.

Abstract: This book is intended for chemical and electrical engineers, physicists, metallurgists and researchers interested in electrochemistry.
 The book contains 177 of the 139 reports presented at the Fourth Conference on Electrochemistry sponsored by the Academy of Sciences, USSR. The collection pertains to different branches of electrochemical science, double layer theories and galvanic processes in metal electrodeposition and industrial electrolysis. Abstracted discussions are given at the end of each division. The majority of reports are included here have been published in periodical literature. No personalities are mentioned. References are given at the end of the articles.

Содержание
 Production of High-Purity Zinc by the Method of Electrolytic Purification 549
 Paper by Dr. G. N. Prigodnykh, E. V. Gudin, A. R. Gureev and contributing authors) 541
 Phase VI. PASSIVITY OF METALS AND CHEMICAL SOLUTION LAYERS 577
Анодирование... (Anodization) (Germany). Activation of Passive Iron 579
Катодирование... (Cathodization), and E. N. Anyazheva (Physico-Chemical Institute, M. S. Vysotskiy, Acad. Sci. USSR) 594
 Activation of Metals in Aqueous Solutions of Electrolytes 596
 Card 81/34

KOLOTYRIN, Ya.M.; KNYAZHEVA, V.M.

Experimental and theoretical basis for the anodic protection of
metals from corrosion in aggressive media. Khim.prom. no.1:
40-47 Ja '63. (MIRA 16:3)
(Metals—Corrosion) (Passivation)

KOLOTYRKIN, Ya. M. — ~~NEAZHENA~~ Y. M.

Experimental and theoretical principles of the anodic protection
of metals from corrosion in aggressive media. Khim. prom. no.2:
81-87 P '63. (MIRA 16:7)

(Metals—Corrosion) (Passivation)

KOLOTYRKIN, Ya.M.; KNYAZHEVA, V.M.

Behavior of the electrode potential of anodically passivated chromium and its iron alloys in the process of self-activation in sulfuric acid solution. Zhur. fiz. khim. 36 no.6:1232-1240 Je'62 (MIRA 17:7)

1. Fiziko-khimicheskiy institut imeni Karpova, Moskva.

KNIAZHEVA, V.M.; KOLOTYRKIN, Ya.M.; VEDENEYEVA, M.A.; RAMAZANOVA, R.S.

Use of the potentiostatic method for investigating the inter-crystalline corrosion of austenite chromium-nickel steels. Khim. prom. no.5:381-390 My '64. (MIRA 17:9)

KNIAZHEVA, Y.M.; VEDENEYEVA, M.A.; SAID YESEL'DIN KHALIL'; KOLOTYRKIN, Ya.M.;
Prinimala uchastiye; SUMAKOVA, I.S., studentka

Electrochemical study of the effect of the content of carbon, titanium,
and manganese on the corrosion resistance of chromium-nickel-manganese
steels. Zashch. met. 1 no.5:465-472 8-0 '65. (MIRA 18:9)

1. Nauchno-issledovatel'skiy fiziko-khimicheskiy institut imeni
L.Ya. Karpova, Moskva (for all except Sumakova). 2. Moskovskiy
institut stali i splavov (for Sumakova).

MAKAROV, V.A.; KOLOTURKIN, Ya.M.; KNYAZHEVA, V.M.; MAMIN, Ye.P.

Range of action of the anodic protection of metals in corrosive media. Zashch.met. 1 no.6:662-669 R-D '65.

(MIRA 18:11)

1. Nauchno-issledovatel'skiy fiziko-khimicheskiy institut imeni L.Ya.Karpova, Moskva.

SARLIN, A.I.; KRYAZHITSKIY, A.I.

Automatic machine for releasing continuous self-loading
cass. film. talk. -chem. inform. Gov. mach. -incl. inst. mach. i
talk. inform. no. 349 Ag '65.

(MIRA 18:12)

L 23871-66 ERI(d)/ENA(d)/ENP(r)/ENP(k) LJP(c) JD/WB

ACC NR: AP6008623

SOURCE CODE: UR/0365/65/001/006/0662/0669

AUTHORS: Makarov, V. A.; Kolotyrkin, Ya. M.; Knyazheva, V. M.; Mazin, Ye. B.

52
51
B

ORG: Scientific Research Physico-Chemical Institute in. L. Ya. Karpov (Nauchno-issledovatel'skiy fiziko-khimicheskiy institut)

TITLE: The extent of anode protection of metals from corrosion in corrosive media

SOURCE: Zashchita metallov, v. 1, no. 6, 1965, 662-669
pipeline, steel, 18

TOPIC TAGS: electrochemistry, corrosion, corrosion protection, corrosion resistant steel/ 18-8 steel

ABSTRACT: A theoretical derivation for the depth of anodic protection offered to a metal pipe surface exposed to corrosive media is presented. The derivation is based on the assumption that the anodic polarization curve in the region of the "active loop" may be divided into a finite number of regions, for each of which the current-potential relationship may be expressed by an equation similar in form to Tafel's equation. It is also assumed that, in passive region, the current density is independent of the potential. The differential equation

$$\left[\frac{\partial \varphi}{\partial x} - \frac{2\varphi}{r} \right] / i(\varphi) = 0$$

is derived, where $i(\varphi)$ - i , i is the current, φ the potential on the outer surface of the pipe, r is the radius of the pipe, and l the depth of anodic protection. This

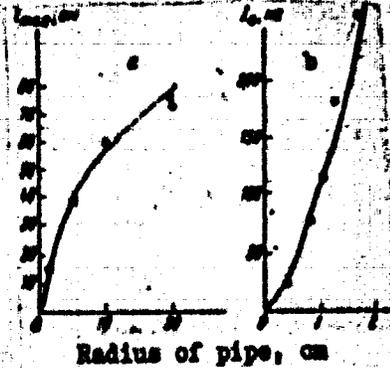
Card 1/2

UDC: 620.197.3

L 23871-66
ACC NR: AF6008523

equation is solved for various initial and boundary conditions. The calculated results are compared with experimental results of C. Edeleanu and I. Gibson (Chem. Ind., 1961, N. 10, 301) (see Fig. 1).

Fig. 1. Comparison of calculated and experimental data for steel 10-8 in 30% sulfuric acid. s - extent of passive region for the case of partially passivated construction; b - current from the active region of the pipe. Open circles: experimental data taken from reference cited.



It is suggested that the derived expression for the depth of anodic protection should prove useful in the development of methods for the protection of pipelines exposed to the action of corrosive media. Orig. art. has: 5 graphs and 19 equations.

SUB CODE: 07, 13/ SUBM DATE: 19Apr65/ ORIG REF: 007/ OTH REF: 009

Card 2/2 dda

ACC NR: AP6036106

(A, N)

SOURCE CODE: UR/0365/66/002/006/0628/0635

AUTHOR: Knyazhova, V. M.; Sumakova, I. S.; Kolotyркиn, Ya. M.; Krushkovskaya, A. A.

ORG: Physicochemical Scientific Research Institute im. L. Ya. Karpov (Nauchno-issledovatel'skiy fiziko-khimicheskiy institut)

TITLE: Anodic behavior of chrome-nickel steels stabilized with titanium

SOURCE: Zashchita metallov, v. 2, no. 6, 1966, 628-635

TOPIC TAGS: chromium steel alloy, nickel containing alloy, titanium, electrochemistry

ABSTRACT: The experiments were carried out on samples of Type Kh18N9T steel in a 1 N solution of sulfuric acid, at 70°, in an atmosphere of argon. In general, the polarization curves were taken for freshly purified samples which had not been subjected to previous cathode activation. In addition to the electrochemical measurements, the solutions were analyzed colorimetrically for Fe, Cr, and Ti, after the samples had been held at the given voltages. The sensitivity of the determinations was, respectively, 5×10^{-7} , 5×10^{-6} , and 2×10^{-7} grams/ml. It was concluded from the experimental data that titanium carbide, regardless of existing literature indications, cannot be recommended as an electrochemically stable anode. It follows also from the results of the present investigation that in the determination of the steady state anode potential curves, it is not necessary to take into account the

Card 1/2

UDC: 669.15-194:669.24:27:581.138.2

ACC NR: AF6036106

change in the state of the surface of the steel, and in particular its chemical composition, as a function of the duration of the experiment. The electrochemical instability of titanium carbide is evidently one reason why steels stabilized with titanium have a lower corrosion resistance in oxidizing media, and an increased tendency toward pitting, in comparison to steels which do not contain titanium. "We acknowledge our deep indebtedness to M. A. Veneneyeva for help in carrying out this work." Orig. art. has: 6 figures and 2 tables.

SUB CODE: 11, 20, 07 / SUBM DATE: 09Apr66 / ORIG REF: 013 / OTH REF: 006

Card 2/2

KNYAZHEVICH E.M

MATVEYEV-MOTIN, A.S., kandidat sel'skokhozyaystvennykh nauk;
KNYAZHEVICH, E.M., redaktor.

[Efficient woodworking with oak] Ratsional'naya rasrabotka duba.
Moskva, Goslebumisdat, 1953, 103 p. (MIRA 7:3)
(Oak) (Woodwork)

KNIAZHEVICH, G.V. [Kniashevych, H.V.]

Edematous-ascitic form of Botkin's disease in a 3 1/2-year-old boy.
Ped., akush. i gin. 23 no.6:20-21 '61. (MIRA 15:4)

1. Khar'kovskaya 5 detskaya bol'nitsa (glavnyy vrach - S.N.Frisman).
(HEPATITIS, INFECTIOUS)

KNYAZHEVICH, I.N.

Enclosed complex TKShVP-180/6 mobile substation for use in mines.
Prom. energ. 19 no.8:50 Ag '64.

APN-type electric motors. Ibid.:51

(MIRA 17:11)

KNYAZHEVICH, I.N.

Dosing pumps. Prom. energ. 20 no.1:53-54 Ja '65.

(MIRA 18:4)

~~KNYAZHEVICH, M., Kapitän.~~

Good methodologist. Yasn. svias. 16 no.1:19 Ja '58. (MIRA 11:2)
(Telegraphers--Study and teaching)

LEBEL', L. M., ~~1982-85~~ (Sovetskaya Narodnaya Respublika)

Testing joints of precast reinforced concrete slabs. Est. 1 shel.-bet.
№ 2:82-85 P '59.

(Concrete slabs--Testing)

(MIRA 12:3)

KNYAZHEVSKIY, A.V.

BURTSEV, M.P.; KNYAZHEVSKIY, A.V.

Slide phenomena in coal deposit areas of Central Asia. Ugol'
32 no.12:34-35 D '57. (MIRA 11:1)
(Soviet Central Asia—Coal geology)

KAMKIN, N.V.; KNYASHINSKIY, B.A.

The KM-16-2 yarn dyeing apparatus. Lag. prom. 18 no.9:40-43
8 '58. (MIRA 11:10)
(Yarn) (Dyes and dyeing--Apparatus)

S/193/60/000/007/004/012
A005/A001AUTHORS: Kryashitskiy, I. I., Bernshteyn, L. M.

TITLE: Vertical Milling Machine of the OF-41 (OF-41)-Make With Program Control

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 7, pp.20-22

TEXT: The vertical milling machine of the OF-1-make with program control was developed and produced by the Odesskiy zavod frezernykh stankov im. S. M. Kirova (Odessa Milling Machine Works im. S. M. Kirov) in 1959 and is provided for processing surfaces by milling in three directions: longitudinal, transversal, and vertical, according to the program as well as for automatic processing of openings with preset distances between their axes without marking and jigs. The program control processing is connected with the tool replacing. Manual operation is possible. - The machine design is cantileverless. The horizontal compound rest has the operation area 320 x 1,250 mm, is mounted on the rigid machine bed, and carries out two motions: longitudinal and transversal by the transverse slide. The spindle head travels vertically along the guides of the column. The machine is fitted out with hydraulic cylinders for travel and clamp of the rest, the

sli

Card 1/2

KHIAZHITSKIY, Iosif Il'ich; RASHEKOVICH, Mikhail Pavlovich; ORLIKOV, M.L.,
kand. tekhn. nauk, k. t. n. s. n. s.;
GOROSTAYPOL'SKAYA, M.O., tekhn. red.;

[Inductive converters in program controlled machine tools] In-
duktivnye prekhodnye preobrazovateli v stankakh s programnym
upravleniem. Moskva, Mashgis, 1962. 109 p. (MIRA 15:3)
(Machine tools--Numerical control)

KNYAZHEVSKIY, L.

Revising the order and norms of depreciation deductions. Avt.
transp. 32 no.8:32 Ag '54. (MLRA 7:11)

1. Glavnyy bukhgalter Ministerstva avtomobil'nogo transporta i
shosseynykh dorog Latvyskoy SSR.
(Automobiles) (Depreciation)

KNYAZHEVSKIY, L.

CHEMBER, N., kandidat ekonomicheskikh nauk; KNYAZHEVSKIY, L.

Material requisition and inventory cards, and the reduction of repair and maintenance costs of automobiles. Avt.transp.32 no.10:13-16 0 '54. (MIRA 7:12)

1. Dotsent Moskovskogo inzhenerno-ekonomicheskogo instituta im. Sergo Ordshonikidse (for Chember) 2. Glavnyy bukhgalter Ministerstva avtomobil'nogo transporta i shosseynykh dorog Latvyskoy SSR (for Knyazhevskiy) (Automobiles--Repairing)

KNYAZHEVSKIY, S. I.

Mechanization of accounting operations. Preisv.-tekhn. sbor. no.2:105-109 '59.
(MIRA 13:10)

1. Severo-Zapadnoye parokhodstvo.
(Inland water transportation—Accounting)
(Machine accounting)

KNYAZHEVSKIY, V.S.

AID P - 3556

Subject : USSR/Electricity
Card 1/1 Pub. 29 - 20/27
Author : Knyazhevskiy, V. S., Eng.
Title : Signaling the location of oil circuit breakers
Periodical : Energetik, 11, 27-28, N 1955
Abstract : The author describes a system of signalization of the location of oil circuit breakers. The system was installed according to the design of a worker of a regional network, P. A. Morozov. There are three interconnected substations feeding industrial establishments. The problem consists in locating the fault and in obtaining automatic reclosure. Four connection diagrams.
Institution : None
Submitted : No date

KNYASHINSKIY, V.S., Inzhener.

Defect in the clockwork of the PRA operating mechanism. Energetik
4 no.12:21 D '56. (MIRA 10:1)
(Electric circuit breakers)

~~KNYAZHNEVSKIY, V.S.~~ ~~Ensh.~~

Experience with relay protection and automatic control in municipal
cable networks. Energetik 5 no.10:1-4 0 '57. (MIRA 10:12)
(Electric networks) (Electric relays)

KNYAZEVSKIY, Vladimir Sergeyevich, dotsent; PRIVEKENTSEVA, A.G., red.;
KAPRALOVA, A.N., ukm. red.

[Statistics on the use of labor reserves and labor productivity
in agriculture] Statistika ispol'zovaniya trudovykh resursov
i proizvoditel'nosti truda v sel'skom khoziaistve. Moskva,
Gosstatizdat TsSU SSSR, 1960. 93 p. (MIRA 13:7)

1. Kafedra statistiki Rostovskogo finansovo-ekonomicheskogo
instituta (for Knyazevskiy).
(Labor productivity) (Agricultural statistics)

KNYAZHETSKAYA, Yekaterina Andreyevna; MALKES, B., red.

[The fate of a map] Sud'ba odnoi karty. Moskva, Mysl',
1964. 117 p. (MIRA 18:7)

KNYAZHETSKAYA, Ye. I.

Cycloserine in the compound treatment of pulmonary tuberculosis.
Sov. med. 28 no. 7:84-88 JI '64. (MIRA 18:8)

1. Terapevticheskoye otdeleniye (rukovoditel' M. Ya. Babatskiy)
Leningradskogo nauchno-issledovatel'skogo instituta tuberkuleza
(dir. - prof. A. D. Semenov).

KNYAZHEVSKIY, V.S., insh.

Concerning the design of VM-16 load switches. Energetik 9 no.3:18-
19 Nr '61. (MIRA 14:7)
(Electric power distribution) (Electric switchgear)

RUMYANTSEV, I.V., inzh.; KNYAZHEVSKIY, V.S., inzh.

Parallel operation of short cable lines without differential protection. Energetik 9 no.4:24-25 Ap '61. (MIRA 14:8)
(Electric lines)
(Electric protection)

GOZULOV, Avdey Il'ich ; KNYAZEVSKIY, Vladimir Sergeyevich;
ZAV'YALOVA, Ye.S., Tekhn. red.

[Planning of and accounting for special factors labor productivity]
Planirovanie i uchët proizvoditel'nosti truda po faktoram. Moskva,
Ekonomisdat, 1962. 130 p. (MIRA 15:6)
(Labor productivity)

KNYAZHEVSKIY, V.S.

Conference of the readers of "Elektricheskie Stantsii" held in
Leningrad. Elek. sta. 35 no.6:88 Je '64.

(MIRA 18:1)

KNYAZHINA, L.I.

KNIAZHINA L.I.; PEREL'MAN, M.I., kandidat meditsinskikh nauk, Shcherb-
ovskov, Vol'skaya nab., d. 17, kv.26.

Local anesthesia in amputation of a lower extremity with half
of the pelvis. Vest.khir. 7 5 no. 112-115 Je '55 (MLRA 8:10)

1. Iz Bol'nichnogo gorodka g. Shcherb-ova (glavn.vrach N.Ye.
Banina)

(ANESTHESIA, LOCAL,

in amputation, high pelvic)

(AMPUTATION, anesthesia and analgesia,

local, in high pelvic amputation)

(PELVIS, surgery,

high pelvic amputation, local anesth. in)

KNYAZHINSKAYA, L. A.,

"Peculiarities in the Formation and Development of Western Indian Territory."

Presented at the 4th Conference of Young Scientists of the Institute of Geography of the USSR Academy of Sciences, 1957 (Izv. Ak Nauk SSSR, Ser. Geog. 1958, No. 2, 151-3, Gorbunova, M. N.).

ANDREYEVA, V.M.; ~~KNYAZHINSKAYA, L.A.~~; NAZAREVSKIY, O.R.; FREYKIN, Z.G.

Problems of population geography at the scientific conference
on the population of Central Asia. Isv. AN SSSR, Ser. geog.
no. 1:145-148 Ja-F '66 (MIRA 19:2)

KNASHTINKAYA, I.I.

Changes in the population's number and distribution in India
during the years of independence, top. geogr. no. 6:135-45 '64.
(MIRA 17:10)

KHYAZHINSKAYA, Larisa Aleksandrovna; POPOV, K.M., prof., doktor ekonom.nauk,
stv.red.; ASOYAN, N.S., red.; KISHINEVA, Z.A., red.kart; MOGINA,
N.I., tekhn.red.

[Western India; economic and geographical characteristics]
Zapadnaya Indiya; ekonomiko-geograficheskiye kharakteristika.
Moskva, Gos.isd-vo geogr.lit-ry, 1959. 308 p. (MIRA 12:8)
(India--Economic conditions)

BONIFAT'YEVA, L.I.; KNYAZHINSKAYA, L.A.

Some preliminary results of the 1961 population census in India.
Izv. Vses. geog. ob-va 95 no.4:320-329 JI-Ag '63. (MIRA 16'9)
(India--Census)

KNYAZHINSKIY, B.P., kand. med. nauk

Scientific and practical out-session on sanitary and hygienic
problems. Med. zh. Usbek. 3:66-67 '63 (MIRA 17:2)

KNYAZHINSKIY, B.P., kand.med.nauk

Anniversary session of the Uzbek Institute of Sanitation Research,
Oig.1 san. 23 no.5:86-87 My'58 (MIRA 11:6)
(PUBLIC HEALTH)

KNYAZHINSKIY, B.P., kard. med. nauk

Conference on hygiene. Qig. sanit. 28 no.2:110-111 '63
(MIRA 17:2)

KNYAZHINSKIY, M.D.

Introduce more extensively the norm method of accounting in construction for the transportation industry. *Tranzp. stroi.* 15 no.5: 35-36 My '65. (MIRA 18:7)

1. Glavnyy bukhalter i usta Sovkavdiastroy.

AID P - 4512

Subject : USSR/Engineering
Card 1/2 Pub. 11 - 10/12
Authors : Asnis, A. E., Z. O. Knyazhinskiy, et. al.
Title : New Methods of Mechanical Control, Tests and Inspections of Welded Straight-Seam Pipes of Large Diameter for Main Gas and Oil Pipelines.
Periodical : Avtom. svar., 2, 76-82, Mr/Ap 1956
Abstract : The authors describe tests given to welded metal, seam metal, adjacent-to-seam metal and to the whole welded joint by the latest mechanical methods of measuring the limits of yield and strength in flat samples of a pipe. New methods have significantly reduced the expenditures of finished pipes, and do not exclude further inspection by X-rays, Gamma-rays and hydraulic pressure. Two tables, 2 graphs and 2 drawings.

SOV/137-59-1-1771

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 233 (USSR)

AUTHORS: Knyazhinskiy, Z. O., Kalinushkin, P. I.

TITLE: A Rational Method for Sizing of Pipes Welded by the Submerged-arc Method (Ratsional'nyy sposob kalibrovki trub, svarenykh pod slozem flyusa)

PERIODICAL: Byul. nauchno-tekhn. inform. Vses. n.-i. trubnyy in-t, 1958, Nr 4-5, pp 94-98

ABSTRACT: A report on the results of sizing operations on welded pipes, 529-720 mm in diameter and a wall thickness of 9-10 mm, performed by the method of expansion. Comparative laboratory data on the relationship between the degree of ellipticity and the deformation (achieved by the methods of expansion and reduction) were substantiated by production tests. As a result of the adoption of the expansion method, the degree of ellipticity of the pipes does not exceed ± 5 min [sic] at deformations ranging from 0.8 to 1.9%, the ductility of the weld bead is not impaired, as is the case in sizing of pipes by the reduction method, and effective quality control of the welding may be maintained.

V. G.

Card 1/1

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 233 (USSR) SOV/137-59-1-1773

AUTHORS: Knyazhinskiy, Z. O., Kalinushkin, P. N.

TITLE: A Rational Method of Trimming the Ends of Large Arc-welded pipes
(Ratsional'nyy sposob obrezki kontsov elektrosvarynykh trub bol'shogo diametra)

PERIODICAL: Byul. nauchno-tekhn. inform. Vses. n.-i. trubnyy in-t, 1958, Nr 4-5, pp 98-101

ABSTRACT: Following the recommendation of the VNITI, the Khartsyzsk pipe-manufacturing plant has discontinued the practice of removing defects on pipe (P) ends with the aid of disk-type shears and has adopted the procedure of trimming of pipe ends on metal-cutting machines preliminary to sizing operations. The introduction of this method made it possible to completely eliminate factors responsible for the tearing of the P metal during trimming and sizing operations, significantly improved the quality of the Ps, and increased the output of sound stock.

Card 1/1

Ye. T.

SOV-135-58-9-10/20

AUTHORS: Mandel'berg, S.L., and Kryashinskiy, Z.O., Candidates of Technical Sciences

TITLE: Production Technology for Welded Straightseam Gas and Oil Pipes of Large Diameter (Tekhnologiya proizvodstva svarnykh pryamoshovnykh gazo-i nefteprovodnykh trub bol'shogo diametra)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 9, pp 32-36 (USSR)

ABSTRACT: Information is presented on experimental investigations carried out at the Institute of Electric Welding imeni Ye.O. Paton, TsNIICHMET, VNITI and the Chelyabinsk Plant, in developing production technology for large diameter high-pressure gas pipes at the Khartsyzsk and Chelyabinsk Plants. Technology and new high-strength steel grades ("14Kh08" and "190" - composition given in table 3) were developed for two production methods; 1) the forming of the pipes on rollers and the subsequent straightening of them; 2) the forming of the pipes on presses and their subsequent widening. Information includes technology of two-side two-arc welding

Card 1/2

SOV-135-58-9-10/20
Production Technology for Welded Straightseam Gas and Oil Pipes of Large Diameter

under flux with increased speed, ensuring high mechanical properties of weld joints and pipes. There are 4 tables, 1 diagram, 1 graph, 3 photos and 3 Soviet references.

ASSOCIATION: Institut elektrosvarki imeni Ye. O. Patona AN USSR (Institute of Electric Welding imeni Ye. O. Paton, AS UkrSSR) and VNITI.

1. Pipes--Arc welding 2. Pipes--Production 3. Steel
--Physical properties--Tables

Card 2/2

BOYAZ HINSKIY, Z. O.

NAME: BOYAZ HINSKIY DOB: 1918

Abadymovskiy Inst. Elekt. Inst. Elektromekhanika
Vvedeniye vyzhivaniya energii i promyshlennosti (Special State
Edition of Article, 9, 3) Elekt. Gos. Izdat. Mosk. 1957
Moscow, 1960. 207 p. 5,000 copies printed.
Soviet Agency: Odesk. Yuzhnyy Kraevyy Ekonom. Institut
Elektromekhan. Inst. Elektromekhan. Inst. Elektromekhan.
Moscow, 1958.

Dr. Z. O. HINSKIY; Tech. Sci. S. Akhmedov.

PROJECT: Data collection of articles in intended for personal in
the welding industry.

COMMENTS: The article deals with the combined experience of the
Soviet electricians in the field of welding in industry and
in solving scientific and engineering problems in welding
technology.

Problem in the application of new methods of
welding and the welding of metal in industry are discussed.
This is the first collection of articles published under the same
title in the Soviet Union. It is a collection of articles of
the Academy of Sciences Division for the Lenin Prize Winner.
There are 20 references.

NAME OF OFFICE:

198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500

194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500

KNYAZHINSKIY, Z.O.; KALINUSHKIN, P.N.

Machine for the assembly of large-diameter welded pipe blanks.
Bibl. TSIIOM no.3:48 '61. (MIRA 14:12)
(Metalworking machinery--Patents)

ZARITSKIY, V.N., inzh.; KNYAZHINSKIY, Z.O., kand. tekhn. nauk; RAYCHUK,
Yu.I., inzh.; SHIFRIN, L.M., inzh.

Calculation of efficient parameters of the siring instrument on
expansion presses. Proizv. trub no.12:57-63 '64.

(MIRA 17:11)

L 42976-66 EWT(d)/EWT(m)/EWP(k)/EWP(h)/T/EWA(d)/EWP(v)/EWP(t)/EWP(l) WB/

ACC NR: AT9022784
HW/IM/SD

SOURCE CODE: UR/3164/64/000/014/0052/0055

AUTHOR: Knyashnikov, Z. O. (Candidate of Technical Sciences); Kalinushkin, P. N. (Engr.); Shifrin, L. M. (Engr.); Atamanenko, V. A. (Engr.)

28
21
6+1

ORG: Institute of Electric Welding im. Paton (Institut elektrosvarki); Volgograd Scientific Research Institute of Machine-Construction Technology (Volgogradskiy nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya)

TITLE: Welded large diameter two-layer pipes

SOURCE: Dnepropetrovsk. Vsesoyuznyy nauchno-issledovatel'skiy i konstruktorsko - tekhnologicheskij institut trubnoy promyshlennosti. Proisvodstvo trub, no. 14, 1964. Sbornik statey po teorii i praktike trubnogo proizvodstva (Collection of articles on the theory and practice of pipe production), 52-55

TOPIC TAGS: production engineering, pipe, corrosion resistance, stainless steel, carbon steel
Card 1/3

L 42976-66

ACC NR: AT5022784

SUB CODE: 11,13 SUBM DATE: none/

clad steel 18.

L 42976-66

ACC NR: AT5022784

6

ABSTRACT: The difficulty in obtaining special noncorrosive steel, because of its scarcity, in order to produce large-diameter pipes for use in plants producing corrosive materials at high temperatures and pressures makes it necessary to find a way towards a more economic use of such steel. It is recommended that a pipe be produced from two welded sheets of steel, with the inner surface of the pipe made from a high-alloy and corrosion-resistant steel and the outer surface from carbon or low-alloy steel. As a result of experiments a technological process was developed which consisted of taking two or three sheets of steel and welding them together in a plate, which in turn was formed into a hollow ingot and, after welding, shaped as a pipe. In addition to the welding of plates and pipes the method provides for carbon (or low-alloy) steel and stainless steel seams to give the necessary resistance to high-temperature corrosion. The lengthwise edges of the plates were prebent in order to get a better regular cylindric shape of an ingots. The shaping of plates into hollow ingots was carried out on plate-bending rollers with the use of a template. The welding of pipes was accomplished by the usual method with small modifications. The pipes were cold-straightened on a four-roller plant. It was possible by this method to produce high-quality welded two-layer pipes having a diameter of 630-1020 mm. Orig. art. has: 3 figures and 2 tables.

Card 2/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330012-0

ACC NR: AP6035712

(A)

SOURCE CODE: UR/0413/66/000/019/0058/0058

INVENTOR: Knyazhinakiy, Z. O.; Raychuk, Yu. I.; Kalinushkin, P. N.; Osadchiy, Ya. P.; Usachev, I. H.

ORG: none

TITLE: Mill housing for continuous welding of large-diameter tubes. Class 21, No. 186585 [announced by the All-Union Research and Design Technological Institute of the Piping Industry (Vsesoyuznyy nauchno-issledovatel'skiy i konstruktorsko-tekhnologicheskii institut trubnoy promyshlennosti)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 58

TOPIC TAGS: welding, ~~continuous welding~~, ~~heavy-tube welding~~, welding equipment

ABSTRACT: This Author Certificate introduces a mill housing for continuous welding of a large-diameter tubes (see Fig. 1) comprising a frame and a sizing device. To ensure and maintain close contact between the edges to be welded, the sizing device is

Card 1/2

UDC: 621.774.21.06

ACC NR: AP6035712

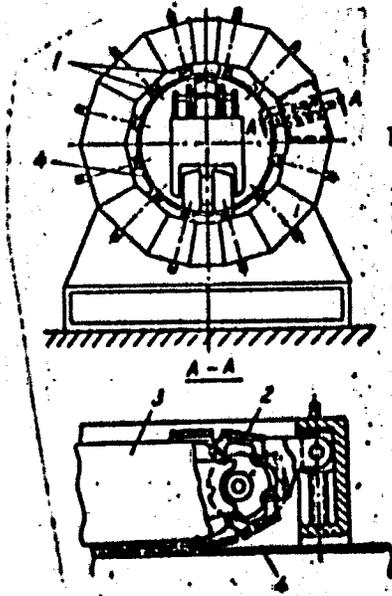


Fig. 1. Mill housing

- 1 - Endless chains; 2 - chain links;
- 3 - longitudinal guide; 4 - tube.

formed by a set of endless chains whose links rest on rigid guides and form a disc which moves together with the tube. Orig. art. has: 1 figure.
SUB CODE: 13/ SUBM DATE: 15Feb65/ ATD PRESS: 5106
Card 2/2

REEL # 233

KLYAVIN'SN, YA. YA.

to

KN YAZHINSKIY, ^{Z.D.} ~~KN~~

END